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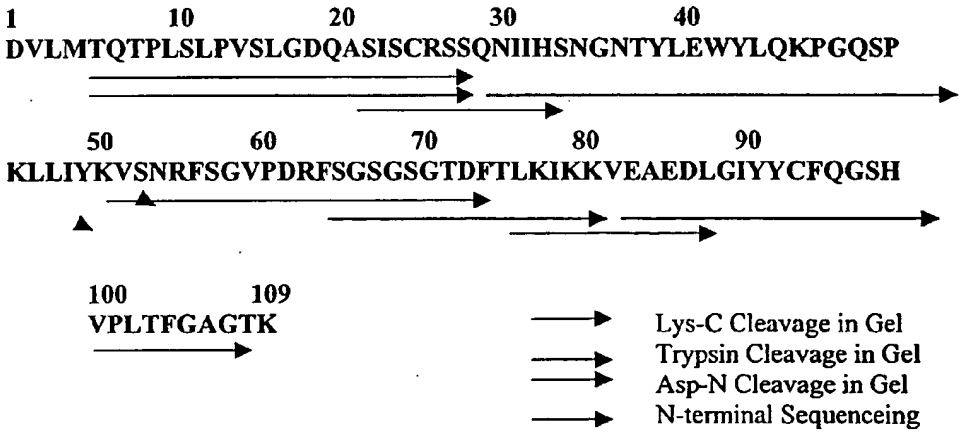
16 January 2003

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR DISEASES ASSOCIATED WITH AMYLOIDOSIS



(57) Abstract: The present invention generally relates to the detection, treatment or prevention of disease states. Specifically, the present invention relates to the detection, treatment or prevention of amyloidosis or amyloid-associated diseases. The present invention further comprises methods and compositions comprising therapeutic vaccines, antisera and molecular constructs, comprising expression vectors and fusion proteins encoded therein.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

ational Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/00 C07K16/00 A61P25/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
BIOSIS, EMBASE, WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	X. LI ET AL.: "Brain delivery of biotinylated NGF bounded to an avidin-transferrin conjugate" JOURNAL OF NATURAL TOXINS, vol. 9, no. 1, February 2000 (2000-02), pages 73-83, XP008005585 the whole document	5,6,13, 14
Y		7-9
Y	D. FRENKEL ET AL.: "N-terminal EFRH sequence of Alzheimer's beta-amyloid peptide represents the epitope of its anti-aggregating antibodies." JOURNAL OF NEUROIMMUNOLOGY, vol. 88, no. 1-2, 1 August 1998 (1998-08-01), pages 85-90, XP001001343 abstract	7-9

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 September 2002	01 10. 2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Nooij, F

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 02421 A (ALKERMES INC. ET AL.) 26 January 1995 (1995-01-26) examples 11-13 claims	5,6,13, 14
X	ARISPE N ET AL: "Alzheimer disease amyloid beta protein forms calcium channels in bilayer membranes: blockade by tromethamine and aluminum." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 90, no. 2, 15 January 1993 (1993-01-15), pages 567-571, XP002170722 Washington, DC, USA abstract page 567, right-hand column, line 22 - line 26	10-12
X	WO 99 39742 A (K. LONGMUIR ET AL.) 12 August 1999 (1999-08-12) examples claims	10,12
A	WO 99 00150 A (REGENTS OF THE UNIVERSITY OF CALIFORNIA) 7 January 1999 (1999-01-07) claims	5,6,13, 14

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

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ternational application No.
PCT/US 01/27632

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 13-18 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

2. [ ] Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. [X] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[X] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9, 13, 14

Composition comprising an expression vector encoding a fusion protein, or comprising said fusion protein, wherein said fusion protein comprises at least one segment comprising a binding region which binds to an epitope or fragment, and at least one or more segments comprising portions, fragments or whole proteins that are capable of crossing the blood brain barrier. Also use of said composition for treating amyloid-associated diseases.

2. Claims: 10-12, 15-18

Composition comprising at least one modified peptide, fragment or protein anchored in a liposomal bilayer. Also use of said composition for treating amyloid-associated diseases.

INTERNATIONAL SEARCH REPORT

Information on patent family members

ational Application No
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9502421 A	26-01-1995	US 5672683 A	30-09-1997
		AU 693466 B2	02-07-1998
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